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No. XI.

*Observations made on a Lunar Eclipse at the Observatory in the City of Philadelphia on the 21st, of September 1801, by Mess. Patterson, and Ellicott.*

Read Dec. 18th, 1801.

The beginning of the eclipse, that of total darkness, and the end of the eclipse, could not be observed on account of clouds; but the end of total darkness was observed as below.

End of total darkness as	}	h	'	"	apparent time		
observed by Mr. Patterson						15	15
☽'s limb began to emerge by	}	Mr. Ellicott	}	h	'	"	ap. time
☽'s limb emerged by							
				at 15	15	37	

The telescopes made use of were both achromatic, and magnified about 70 times.

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No. XII.

*On the Hybernation of Swallows, by the late Colonel Antes. Communicated by Dr. Barton.*

Read May 17th, 1802,

Philadelphia July 9th, 1801.

ABOUT 30 years ago, I was desired by Mr. Stettler, who lived in Frederick Township, (at the time in Philadelphia county,) to lay off a level for the purpose of leading the water of a spring upon a meadow.—The exact year I do not recollect, but am positive it was in the month of February.—I began where the stream entered his ground, and before I had proceeded far I struck a hollow about a rod square which